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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,143	09/25/2006	Kyung-Ho Lee	1387-2 (US2005/12-1)	1092
28349 7590 05/26/2009 DILWORTH & BARRESE, LLP 1000 WOODBURY ROAD SUITE 405 WOODBURY, NY 11797			EXAMINER HADZONOZ, BANAFSHEH	
			ART UNIT 3715	PAPER NUMBER
			MAIL DATE 05/26/2009	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/560,143

**Applicant(s)**

LEE, KYUNG-HO

**Examiner**

Banafsheh Hadizonooz

**Art Unit**

3715

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 December 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-8508)
- Paper No(s)/Mail Date 09/25/2008
- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**Detailed Action**

***Claim Rejections - 35 USC § 112***

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. From the specification, it appears that the RF receiving unit and the extension pack are the same elements. However, claims 1 and 5, disclose that the RF receiving pack comprises the extension pack. It is not clear whether these two elements are separate features.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-8 rejected under 35 U.S.C. 103(a) as being unpatentable over Kato (US 5,808,224) in view of Kuramochi et al. (US 7,328,272).

Regarding claims 1, 5 and 6, Kato discloses a portable downloader connectable to karaoke player comprising an RF receiver for receiving voice signal and key data signal transmitted from a wireless microphone (See claim 3) via a receiving antenna; a demodulator for demodulating the signal applied thereto from the RF signal (See Abstract and P.7, 5-22, Col.12, 5-28); an audio/key data separator (e.g. digital information extractor)(See fig.1); a waveform shaping the waveform of the key data signal; a receiver connected to an external computing device having a computing

function and a sound processing function, the receiver controlling the internal operation of the RF karaoke data signal receiving pack while transmitting the digital voice signal and key data signal (See Col.7, 35-50); an optical disk for storing a karaoke system operating program executed and read by the external computing device, song data and background image data(See Col.1, 54-Col.2, 2 and Col.12, 5-28).

Kato does not specifically disclose an A/D converter for converting the voice signal into the digital signal, a serial communication interface and an extension pack in which additional songs are recorded, the extension being connected to an extension pack slot to transmit data. However, Kuramochi teaches an apparatus and method for adding music content to visual content wherein the interface could be a variety of MIDI interfaces including a serial interface (See Col.9, 23-35). Kuramochi also discloses A/D converter (See Col.11, 4-30) and external storage device (See Fig. 2, element 7). Therefore, it would have been obvious to one of ordinary skill in the art to modify the system of Kato to incorporate the features of Kuramochi's invention in order to design a system with more universal features, enhanced capabilities and data processing features.

With respect to claims 2-4, Kuramochi further disclose wherein serial communication interface transmits or receives signals in a wired/wireless manner (See Col.9, 36-67) and wherein the external computing device comprises a game apparatus or a personal computer (See Col.10, 8-20).

Regarding claims 7 and 8, Kuramochi discloses USB interface and DVD-ROM (See Col.9, 23-35 and 53-64).

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Banafsheh Hadizonooz whose telephone number is 571-272-1242. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xuan Thai can be reached on (571) 272- 7147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BH

/Cameron Saadat/  
Primary Examiner, Art Unit 3715